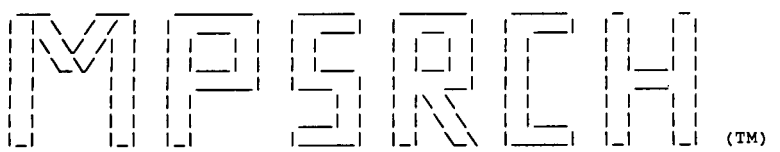
****



****

Release 3.1A John F. Collins, Biocomputing Research Unit.

MPsrch_tpn n.a. - n.a. Smith-Waterman search, using a protein query
which has been backtranslated into n.a. using IUPAC symbols

on: Fri Oct 22 08:00:26 1999; MasPar time 128.73 Seconds
873.705 Million cell updates/sec
Tabular output not generated.

Title: >US-08-978-217-12
Description: (1-16) from US08978217.pep
Perfect Score: 205
N.A. Sequence: 1 AARAAYWSNWSNGGNTGGAARGARGARGARGTNYTNCARWSNMGNAAY 48
Comp: TTYTTRWSNWSNCCNACCTTYCTYCTYCTYCANRANGTYWSNKCNTTR

Scoring table: TABLE bktranslate2
Gap 40

Nmatch STD : Dbase 0; Query 0

Searched: 2883791 seqs, 1171580779 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: embl-est58
1:em_est10 2:em_est11 3:em_est17 4:em_est18 5:em_est2
6:em_est9 7:em_gss1
Database: genbank-est111
8:gb_est1 9:gb_est10 10:gb_est11 11:gb_est12 12:gb_est13
13:gb_est14 14:gb_est15 15:gb_est16 16:gb_est17
17:gb_est18 18:gb_est19 19:gb_est2 20:gb_est20
21:gb_est21 22:gb_est22 23:gb_est23 24:gb_est24
25:gb_est25 26:gb_est26 27:gb_est27 28:gb_est28
29:gb_est29 30:gb_est3 31:gb_est4 32:gb_est5 33:gb_est6
34:gb_est7 35:gb_est8 36:gb_est9 37:gb_gss1 38:gb_gss2
39:gb_gss3 40:gb_gss4 41:gb_gss5 42:gb_gss6

Statistics: Mean 51.043; Variance 79.863; scale 0.639

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
	1	193	94.1	300	30	R50578	yj60d04.r1 Soares brea	3.93e-16
c	2	193	94.1	381	35	AA069015	zm10c02.s1 Stratagene	3.93e-16
	3	193	94.1	440	30	H12657	yj13c04.r1 Soares plac	3.93e-16
	4	193	94.1	461	8	T27397	hbc2545 Human pancreat	3.93e-16
	5	193	94.1	463	30	R73021	yj94b10.r1 Soares brea	3.93e-16
c	6	168	82.0	625	29	AI570386	to78g10.x1 NCI_CGAP_Ga	4.47e-11
	7	163	79.5	280	14	AA560673	vl71b09.r1 Knowles Sol	4.25e-10
	8	163	79.5	476	22	AI048101	vn23e03.r1 Knowles Sol	4.25e-10
	9	163	79.5	489	18	AA822889	vq91h09.r1 Knowles Sol	4.25e-10
	10	163	79.5	496	14	AA518792	vi18h05.r1 Barstead mo	4.25e-10
	11	147	71.7	159	31	F14618	SSO4H10 Porcine small	4.69e-07
	12	143	69.8	472	35	C06679	C06679 Rat pancreatic	2.56e-06
c	13	143	69.8	496	36	AA085539	zn44g11.r1 Stratagene	2.56e-06
	14	131	63.9	253	31	H27938	yl58f12.r1 Soares brea	3.60e-04
	15	123	60.0	154	20	AA921310	al07c01.s1 Barstead sp	8.46e-03
c	16	123	60.0	908	37	B12595	F23G1-Sp6 IGF Arabidop	8.46e-03
	17	121	59.0	522	41	AQ373192	RPCI11-146M16.TJ RPCI1	1.83e-02
	18	121	59.0	592	41	AQ372001	RPCI11-146M15.TJ RPCI1	1.83e-02
c	19	118	57.6	139	15	C67543	C67543 Yuji Kohara unp	5.72e-02
c	20	118	57.6	234	9	AA145095	mr08d06.r1 Soares mous	5.72e-02
c	21	118	57.6	251	10	AA290098	vb32c01.r1 Soares mous	5.72e-02
c	22	118	57.6	269	10	AA290108	vb32f01.r1 Soares mous	5.72e-02
c	23	118	57.6	273	39	AQ097418	HS_3036_A2_E04_MR CIT	5.72e-02
	24	118	57.6	290	26	AI413511	me11d02.x1 Soares mous	5.72e-02
c	25	118	57.6	360	15	C61687	C61687 Yuji Kohara unp	5.72e-02
c	26	118	57.6	390	22	AI049567	an34b01.x1 Gessler Wil	5.72e-02
c	27	118	57.6	398	9	AA159850	zo63a04.r1 Stratagene	5.72e-02
c	28	118	57.6	400	13	AA428486	zw44b08.r1 Soares_tota	5.72e-02
	29	118	57.6	406	13	AA469910	zt94e02.r1 Soares_test	5.72e-02
	30	118	57.6	500	18	C85301	C85301 Mouse fertilize	5.72e-02
c	31	118	57.6	510	28	AI524038	tg99g11.x1 NCI_CGAP_CL	5.72e-02
c	32	118	57.6	550	41	AQ365749	nbxb0064K18f CUGI Rice	5.72e-02
c	33	118	57.6	700	41	AQ366158	nbxb0065I04f CUGI Rice	5.72e-02
	34	117	57.1	359	15	AA597128	vo27h12.r1 Barstead mo	8.33e-02
	35	117	57.1	388	32	D81724	HUM402E08B Human fetal	8.33e-02
c	36	117	57.1	401	9	AA174897	ms81a07.r1 Soares mous	8.33e-02
	37	117	57.1	433	32	D81630	HUM179C07B Human fetal	8.33e-02
c	38	117	57.1	441	13	AA410184	zv23d04.s1 Soares_NhHM	8.33e-02
	39	117	57.1	476	16	AA670700	vs90d01.r1 Barstead mo	8.33e-02
	40	117	57.1	516	40	AQ143002	HS_3064_A1_E10_MF CIT	8.33e-02
	41	117	57.1	516	32	D81792	HUM408A08B Human fetal	8.33e-02
	42	117	57.1	570	41	AQ318697	RPCI11-98M4.TV RPCI11	8.33e-02
	43	116	56.6	226	30	R81448	yj02d04.r1 Soares plac	1.21e-01
c	44	116	56.6	740	41	AQ330760	nbxb0047J18r CUGI Rice	1.21e-01
c	45	115	56.1	488	41	AQ331608	HS_5001_A1_H08_SP6E RP	1.75e-01

ALIGNMENTS

RESULT 1
LOCUS R50578 300 bp mRNA EST 18-MAY-1995
DEFINITION yj60d04.r1 Soares breast 2NbHBst Homo sapiens cDNA clone IMAGE:153127 5' similar to contains PTR5 repetitive element ;, mRNA sequence.
ACCESSION R50578
NID g812480
VERSION R50578.1 GI:812480
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 300)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 797
High quality sequence stops: 227 Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 797 Std Error: 0.00

Seq primer: M13RP1
High quality sequence stop: 227.
FEATURES Location/Qualifiers
source 1. .300
/organism="Homo sapiens"
/note="Organ: breast; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGGAGCGGCCGCCCTTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 230. Library constructed by Bento Soares and M.Fatima Bonaldo."
/db_xref="GDB:565412"
/db_xref="taxon:9606"
/clone="IMAGE:153127"
/clone_lib="Soares breast 2NbHBst"
/sex="Female"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
COUNT 63 a 78 c 89 g 62 t 8 others
ORIGIN

Query Match 94.1%; Score 193; DB 30; Length 300;
Best Local Similarity 52.1%; Pred. No. 3.93e-16;
Matches 25; Conservative 16; Mismatches 7; Indels 0; Gaps 0;

Db 26 AAAAACTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 73
||:||::: :: || |||||:||:||:||:|| :| ||::: :| ||:
Qy 1 AARAAYWSNWSNGGNTGGAARGARGARGARGTNYTNCARWSNMGNAAY 48

RESULT 2
LOCUS AA069015 381 bp mRNA EST 23-DEC-1997
DEFINITION zm10c02.s1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:525218 3' similar to SW:E74A_DROME P20105 ECDYSONE-INDUCED PROTEIN 74EFA ;, mRNA sequence.
ACCESSION AA069015
NID g1576393
VERSION AA069015.1 GI:1576393
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 381)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT On Apr 14, 1993 this sequence version replaced gi:785641.

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
WARNING: There is evidence that suggests that the 384-well parent plate of this clone contains both human and mouse derived clones. Thus, the origin of this clone is uncertain. This caution should be kept in mind should you use this clone.

This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 416 Std Error: 0.00
Seq primer: -40M13 fwd. from Amersham.
FEATURES Location/Qualifiers
source 1. .381
/organism="Homo sapiens"
/note="Organ: pancreas; Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dT. Pancreatic adenocarcinoma cell line. Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGCACGAG 3' -3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTTTT 3'"
/db_xref="GDB:3916647"
/db_xref="taxon:9606"
/map="810D11; 6; 6p21.1-6p21.31; 17q21"
/clone="IMAGE:525218"
/clone_lib="Stratagene pancreas (#937208)"
/lab_host="SOLR cells (kanamycin resistant)"
BASE COUNT 57 a 121 c 97 g 106 t
ORIGIN

Query Match 94.1%; Score 193; DB 35; Length 381;
Best Local Similarity 52.1%; Pred. No. 3.93e-16;
Matches 25; Conservative 16; Mismatches 7; Indels 0; Gaps 0;

Db 14 GTTCCGACTCTGGAGAACCTCTTCCTCCTTCCAGCCGCTTGAGTTTTT 61
:|| |: :::|| |: ||:||:||:|||:||||| || :: :::||:||
Cp 48 RTTNCKNSWYTGNARNACYTCYTCYTCYTTCCANCCNSWNSWRTTYTT 1

RESULT 3
LOCUS H12657 440 bp mRNA EST 27-JUN-1995
DEFINITION yj13c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148614 5' similar to SP:A42122 A42122 ELF-1=DROSOPHILA E74-LIKE FACTOR 1 - HUMAN ;, mRNA sequence.
ACCESSION H12657
NID g877477
VERSION H12657.1 GI:877477
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 440)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1007
High quality sequence stops: 315
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1007 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 315.
FEATURES Location/Qualifiers
source 1. .440
/organism="Homo sapiens"
/note="Organ: placenta; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' AACTGGAAGAATTCGCGGCCGCAGGAATTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo. "

```
                     /db_xref="GDB:560397"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:148614"
                     /clone_lib="Soares placenta Nb2HP"
                     /sex="Female"
                     /dev_stage="placenta obtained at birth (full term)"
                     /lab_host="DH10B (ampicillin resistant)"
BASE COUNT       107 a      95 c     138 g      98 t       2 others
ORIGIN

  Query Match           94.1%;  Score 193;  DB 30;  Length 440;
  Best Local Similarity  52.1%;  Pred. No. 3.93e-16;
  Matches    25;  Conservative   16;  Mismatches   7;  Indels   0;  Gaps   0;

Db     198 AAAAACTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 245
           ||:||::: :: || |||||:||:||:||:|| :| ||::: :| ||:
Qy       1 AARAAYWSNWSNGGNTGGAARGARGARGARGTNYTNCARWSNMGNAAY 48


RESULT    4
LOCUS       T27397        461 bp    mRNA            EST       06-DEC-1994
DEFINITION  hbc2545 Human pancreatic islet Homo sapiens cDNA clone hbc2545
            5'end, mRNA sequence.
ACCESSION   T27397
NID         g601671
VERSION     T27397.1  GI:601671
KEYWORDS    EST.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
            Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 461)
  AUTHORS   Bell,G.I. and Takeda,J.
  TITLE     Human pancreatic islet cDNAs
  JOURNAL   Unpublished (1995)
COMMENT
            Contact: Bell GI or Takeda J
            HHMI
            Univ. of Chicago
            5841 S. Maryland Ave.,MC1028,Chicago IL 60637
            Tel: 3127029116
            Fax: 3127020271
            Email: g-bell@uchicago.edu
            Seq primer: SK primer.
FEATURES             Location/Qualifiers
     source          1. .461
                     /organism="Homo sapiens"
                     /note="Vector: Lambda ZAPII; Site_1: Eco RI; Site_2: Xho
                     I; mRNA was prepared from normal adult human islets. cDNA
                     was directionally synthesized from the Xho I in the vector
                     to the EcoRI site. cDNA was size fractionated to remove
                     sequences <1000 bp in size."
                     /db_xref="taxon:9606"
                     /clone="hbc2545"
                     /clone_lib="Human pancreatic islet"
BASE COUNT       110 a      116 c      133 g      91 t       11 others
ORIGIN

  Query Match           94.1%;  Score 193;  DB 8;  Length 461;
  Best Local Similarity  52.1%;  Pred. No. 3.93e-16;
  Matches    25;  Conservative   16;  Mismatches   7;  Indels   0;  Gaps   0;

Db     166 AAAAACTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 213
           ||:||::: :: || |||||:||:||:||:|| :| ||::: :| ||:
Qy       1 AARAAYWSNWSNGGNTGGAARGARGARGARGTNYTNCARWSNMGNAAY 48


RESULT    5
LOCUS       R73021        463 bp    mRNA            EST       02-JUN-1995
DEFINITION  yj94b10.r1 Soares breast 2NbHBst Homo sapiens cDNA clone
            IMAGE:156379 5', mRNA sequence.
ACCESSION   R73021
NID         g847053
VERSION     R73021.1  GI:847053
KEYWORDS    EST.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
            Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 463)
  AUTHORS   Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,
            Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,
            Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F.,
            Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and
            Wilson,R.
  TITLE     The WashU-Merck EST Project
  JOURNAL   Unpublished (1995)
COMMENT     On May 9, 1995 this sequence version replaced gi:802810.

            Contact: Wilson RK
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: est@watson.wustl.edu
            Insert Size: 829
            High quality sequence stops: 348
            Source: IMAGE Consortium, LLNL
            This clone is available royalty-free through LLNL ; contact the
            IMAGE Consortium (info@image.llnl.gov) for further information.
            Insert Length: 829   Std Error: 0.00
            Seq primer: M13RP1
            High quality sequence stop: 348.
FEATURES             Location/Qualifiers
     source          1. .463
                     /organism="Homo sapiens"
                     /note="Organ: breast; Vector: pT7T3D (Pharmacia) with a
                     modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
                     strand cDNA was primed with a Not I - oligo(dT) primer [5'
                     TGTTACCAATCTGAAGTGGGAGCGGCCGCCCTTTTTTTTTTTTTTTTT 3'],
                     double-stranded cDNA was ligated to Eco RI adaptors
                     (Pharmacia), digested with Not I and cloned into the Not I
                     and Eco RI sites of a modified pT7T3 vector (Pharmacia).
                     Library went through one round of normalization to a Cot =
                     230. Library constructed by Bento Soares and M.Fatima
                     Bonaldo."
                     /db_xref="GDB:570059"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:156379"
                     /clone_lib="Soares breast 2NbHBst"
                     /sex="Female"
                     /dev_stage="adult"
                     /lab_host="DH10B (ampicillin resistant)"
BASE COUNT       107 a      121 c      135 g      97 t       3 others
ORIGIN

  Query Match           94.1%;  Score 193;  DB 30;  Length 463;
  Best Local Similarity  52.1%;  Pred. No. 3.93e-16;
  Matches    25;  Conservative   16;  Mismatches   7;  Indels   0;  Gaps   0;

Db       8 AAAAACTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTCGGAAC 55
           ||:||::: :: || |||||:||:||:||:|| :| ||::: :| ||:
Qy       1 AARAAYWSNWSNGGNTGGAARGARGARGARGTNYTNCARWSNMGNAAY 48


RESULT    6
LOCUS       AI570386      625 bp    mRNA            EST       29-MAR-1999
DEFINITION  to78g10.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184450 3'
            similar to TR:Q99718 Q99718 EPITHELIAL-SPECIFIC TRANSCRIPTION
            FACTOR ESE-1A. [1] ;, mRNA sequence.
ACCESSION   AI570386
NID         g4533760
VERSION     AI570386.1  GI:4533760
KEYWORDS    EST.
SOURCE      human.
  ORGANISM  Homo sapiens
```